



UNIVERSITY OF WASHINGTON  
Tribal Renewable Energy Research Workshop





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There is a growing interest in renewable energy as a route to economic development in Native American communities. As sovereign Nations with traditional knowledge of their lands and waters, Tribes are in a unique position to holistically integrate economic, ecologic, and societal objectives tied to the development of renewable energy. At the same time, universities and other organizations are exploring new ways to manage and convert natural resources into economic activity, while supporting a complex set of ecosystem services and community objectives. The time is right to explore new research questions that can be developed through partnerships between tribal communities and the renewable energy research community.

**MAY 11-13, 2010**

**UW HUSKY UNION BUILDING (HUB)**

### **WORKSHOP SPONSORS**

National Science Foundation Integrative Graduate Education and Research Training Program {IGERT}



University of Washington Bioenergy IGERT Program **W**

This workshop seeks to unite tribal and academic leaders from across North America to define mutual goals for collaboration that will advance the scholarship and application of renewable energy and its productive interactions with landscapes. Wednesday lectures will provide an overview of renewable energy projects on tribal lands. Thursday facilitated audience discussions will explore the needs and interests of tribes and academic researchers in specific renewable energy research areas. Each facilitated session will address:

1. Current state of art
2. Emerging approaches
3. Transformational research opportunities and their potential impacts on energy economics, environmental considerations, technology, and community development.

The meeting will produce a research roadmap for Tribal-University collaborations in renewable energy. The roadmap will be vetted by tribal leaders who attend the Tribal Leadership Summit immediately following the workshop.

*Held in conjunction with*

**TRIBAL LEADERSHIP SUMMIT**

**May 14, 2010**

## TUESDAY EVENING, MAY 11

UW Husky Union Building, Room 200ABC

6:00–8:00 pm Reception and Student Research Poster Session

## WEDNESDAY, MAY 12

UW Husky Union Building, Room 108

- 9:00 am Opening Ceremony  
*Julian Argel (Tsimshian/Haida), Office of Minority Affairs, University of Washington*  
*Clarita Begay (Navajo), PhD Student, University of Washington*
- 9:15 am Tribes and Universities, Scholarship and Applications of Renewable Energy  
*Dan Schwartz, Chemical Engineering, University of Washington*

### RENEWABLE ENERGY RESEARCH AND TRIBES— AN OVERVIEW OF WHAT'S HAPPENING NOW

- 9:30 am Tribal Energy Programs at the Department of Energy  
*Sandra Begay-Campbell (Navajo), Sandia National Laboratories, Tribal Energy Program*
- 10:15 am Coffee Break
- 10:30 am The Tools Needed for Tribal Governments' Renewable Energy Economic Development: Within Sight But Out of Reach  
*Will Micklin (Tlingit), California Association of Tribal Governments; Ewiiapaayp Band of Kumeyaay Indians; Vice President, Central Council Tlingit & Haida Indian Tribes of Alaska*
- 11:15 am Emerging Carbon Economy Legislative Drivers  
*Thomas Lee, 2009 IEEE-USA/AAAS Congressional Fellow*
- 12:00 pm Lunch  
Comedy, Economics and Climate Change  
*Yoram Bauman, Program on the Environment, University of Washington*

### INNOVATIVE TRIBAL ENERGY APPROACHES

- 1:30–5:00 pm Tribal energy specialists describe cutting edge renewable energy projects and their impacts on tribal lands  
*Moderator: Laurel James (Yakama), School of Forest Resources, University of Washington*
- Carbon Markets, *Jonny BearCub Stiffarm (Nakota, enrolled member of the Assiniboine & Sioux Tribes of Fort Peck), Native Energy*
  - Biomass, *Cal Mukumoto, Coquille Economic Development Corporation*
  - Wind, *Michael Connolly Miskwish (Campo, Kumeyaay Band), Laguna Resource Services, Inc. and High Pass Energy, Inc.*
  - Tidal and Wave, *Bud Denny (Makah), Makah Tribal Council*
  - Solar, *Terry Battiest (Navajo), Navajo Tribal Utility Authority*
  - Land and Water Use, *Daryll Williams (Tulalip), Quil Ceda Power Company*

### CLOSING

- 5:00–5:30 pm *Phil Rigdon (Yakama), Department of National Resources, Yakama Nation*

### DINNER

- 6:00–8:00 pm Yakama Power Utility and Renewable Energy  
*Steve Rigdon (Yakama), Yakama Power*

**THURSDAY, MAY 13**  
UW Husky Union Building

FACILITATED SESSIONS

- 9:00 am Opening Ceremony, HUB East Ballroom  
*Scott Pinkham (Nez Perce), College of Engineering, University of Washington*
- 9:15 am Morning Concurrent Facilitated Sessions
- Land and Water Use, HUB 200C  
*Speakers: Jason Hill, Institute on the Environment, University of Minnesota; Quannah Spencer (Yakama), Williams Kastner*  
*Facilitator: Larry Mason, School of Forest Resources, University of Washington*
  - Solar, HUB 200A  
*Speakers: Mary Berry, Department of Chemistry, University of South Dakota; Greg Kaufman (Jemez Pueblo), Department of Resource Protection*  
*Facilitator: TBD*
  - Wind, HUB 200B  
*Speakers: Tom Acker, Department of Mechanical Engineering, Northern Arizona University; Jonny BearCub Stiffarm (Nakota, enrolled member of the Assiniboine & Sioux Tribes of Fort Peck), Native Energy*  
*Facilitator: Kenneth Faires, Department of Mechanical Engineering, University of Washington*
- 12:00 pm Lunch, HUB East Ballroom  
*"Outlooks for Tribal Energy," Michael E. Marchand (Colville), Council Member; President, ATNI Economic Development Corporation; Treasurer, Council of Energy Resource Tribes*
- 2:00 pm Afternoon Concurrent Facilitated Sessions
- Tidal/Wave  
*Speakers: Brian Polagye, Dept of Mechanical Engineering, University of Washington; Stu Levit, Confederated Salish and Kootenai Tribes Legal Department*  
*Facilitator: Steve Rigdon (Yakama), Yakama Power*
  - Bioenergy  
*Speakers: Mary Rezac, Department of Chemical Engineering, Kansas State University; Brent Demko (Yakama), Yakama Tribe Fuels Management Group*  
*Facilitator: Don Motanic (Umatilla), Intertribal Timber Council*
  - Carbon Markets  
*Speakers: Christine Negra, The H. John Heinz III Center for Science, Economics and the Environment; Greg Blomstrom, Baldwin, Blomstrom, Wilkinson and Associates, Inc.*  
*Facilitator: Everett Isaac (Yakama), Yakama Tribe Fuels Management Group*
- 5:30–7:00 pm Dinner, HUB East Ballroom  
Keynote Speaker: *Representative John McCoy, Washington State 38th Legislative District*

**FRIDAY, MAY 14**

Workshop participants may stay for the Tribal Leadership Summit where workshop outcomes will be presented and discussed.